

Amendments to the Claims

1 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord comprising:

a pair of cylindrical rotating bodies rotating in the same direction, wherein the axes of rotation of the cylindrical rotating bodies are disposed at an oblique, predefined angle to each other,
a supply guide supplying a rubber coated cord group to the cylindrical rotating bodies,
the apparatus configured (1) to form a cylindrical rubber sheet by spirally wrapping the rubber coated cord on the pair of cylindrical rotating bodies so that the rubber coated cord is continuously brought into contact with the rubber coated cord already spirally wrapped on the pair of cylindrical rotating bodies and (2) to move the cylindrical rubber sheet on the pair of cylindrical rotating bodies along the axial direction of the cylinder, characterized in that;

at least one of the pair of cylindrical rotating bodies ~~includes~~ is formed of a plurality of small rollers forming a roller group ~~on a peripheral surface of that cylindrical rotating body~~; and

the axis direction of each of the small rollers of the cylindrical rotating body is disposed obliquely at a predefined angle from parallel with the axis direction of the adjacent small rollers.

2 (canceled).

3 (previously presented). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein the diameter of said cylindrical rubber sheet may be varied by varying a center distance between said pair of cylindrical rotating bodies.

4 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein a return position of the rubber coated cord group may be finely adjusted using a push over roller guide after the rubber coated cord group wrapped around said pair of cylindrical rotating bodies has made a circuit around the pair of ~~and has returned to the former~~ cylindrical rotating ~~body~~ bodies.

5 (canceled).

6 (previously presented). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein said cylindrical rotating body which includes a plurality of small rollers forming a roller group on a peripheral surface of that cylindrical rotating body is of variable diameter by varying a center distance of said small roller group.

7 (previously presented). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein the apparatus comprises: a pair of zipper roller guides on each of a cord group A and a cord group B, wherein cord group B has already made a circuit of the cylindrical rotating bodies and is wrapped around the cylindrical rotating bodies; the zipper guides acting to push cord group A into contact with cord group B thereby forming a cylindrical rubber sheet from the continuously spirally wrapped rubber coated cord group by supplying a rubber coated cord group to said cylindrical rotating bodies through said supply guide.

8 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to ~~claim 2~~ claim 1, wherein a surface length of a small roller of said cylindrical rotating body is selected to be 1.5 times or more and 10 times or less of the width of the rubber coated cord group to be processed.

9 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to ~~claim 2~~ claim 1, wherein each small roller of said roller group of said cylindrical rotating body rotates at constant surface velocity when driven.

10 (previously presented). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein the apparatus further has a presser tool to press said cylindrical rubber sheet.

11 (previously presented). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, further including a cutter wherein said cylindrical rubber sheet made by wrapping the rubber coated cord group around on said cylindrical rotating body is cut away

spirally thereby providing a rubber sheet in which the cord is arranged at a predefined angle α to a longitudinal direction of a sheet.

12 (currently amended). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, wherein a rubber extruder having a rubber coating die is provided upstream of said supply guide, the rubber coated cord ~~groups~~ group being guided to said cylindrical rotating bodies through the supply guide after the cord has continuously passed through the rubber coating die and has become coated with rubber extruded from the rubber extruder.

13 (previously presented). A manufacturing apparatus for a rubber sheet reinforced with a cord according to claim 1, comprising a cord supplying section having a twister or an assembly winder wherein the cord supplying section is formed to unreel, thereby giving a twist to the cord; and the cord supplying section is formed to guide the twisted cord to said cylindrical rotating bodies through said supply guide.

14 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord, comprising the steps of:

supplying a rubber coated cord group through a supply guide to a pair of cylindrical rotating bodies, the cylindrical rotating bodies rotating in the same direction and wherein the axes of rotation of the cylindrical rotating bodies are disposed at an oblique, predefined angle to each other;

forming a cylindrical rubber sheet by continuously spirally wrapping the rubber coated cord ~~groups~~ group around the cylindrical bodies;

contacting the rubber coated cord continuously with ~~other~~ more of the rubber coated cord;

and moving the cylindrical rubber sheet on the pair of cylindrical rotating bodies along ~~the~~ an axial direction ~~of the cylinder~~, characterized in that;

at least one of the pair of cylindrical rotating bodies includes a plurality of small rollers forming a roller group on a peripheral surface of that cylindrical rotating body; and

the axis direction of each of the small rollers of the cylindrical rotating body is disposed obliquely at a predefined angle from parallel with the axis direction of the adjacent small rollers.

15 (canceled).

16 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to claim 14, comprising ~~to~~ the step of varying a diameter of said cylindrical rubber sheet by varying a center distance of said pair of cylindrical rotating bodies.

17 (previously presented). A manufacturing method for a rubber sheet reinforced with a cord according to claim 14, comprising the step of finely adjusting a returning position of a the rubber coated cord group by using a push over roller guide to position a rubber coated cord group which has made a circuit between said pair of cylindrical rotating bodies as the rubber coated cord group returns to the former cylindrical rotating body.

18 (canceled).

19 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to ~~claim 12~~ claim 14, comprising the step of varying a diameter of a cylindrical rotating body which includes a plurality of small rollers forming a roller group s by varying a center distance of said roller group and thereby varying the cylinder diameter of said cylindrical rubber sheet.

20 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to ~~claim 12~~ claim 14, comprising the step of conducting a push over to contact cord groups A and B with each other by providing a pair of zipper roller guides on each of cord group A and B when forming the cylindrical rubber sheet; continuously spirally wrapping the rubber coated cord group A; supplying a rubber coated cord group A to said cylindrical rotating bodies through said supply guide and supplying rubber coated cord group A to rubber coated cord group B which has already made a circuit and wrapped around on the cylindrical rotating bodies.

21 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to ~~claim 12~~ claim 14, comprising the step of cutting said cylindrical rubber sheet spirally once the cylindrical rubber sheet has been formed by wrapping around said cylindrical rotating bodies.

22 (currently amended). A manufacturing method for a rubber sheet reinforced with a cord according to ~~claim 12~~ claim 14, comprising the step of guiding the rubber coated cord group to said cylindrical rotating bodies through said supply guide while being formed continuously by passing a cord supplied to said cylindrical rotating bodies through a rubber coating die and coating the cord with rubber extruded from a rubber extruder.

23-32 (canceled)